**Banking Application**

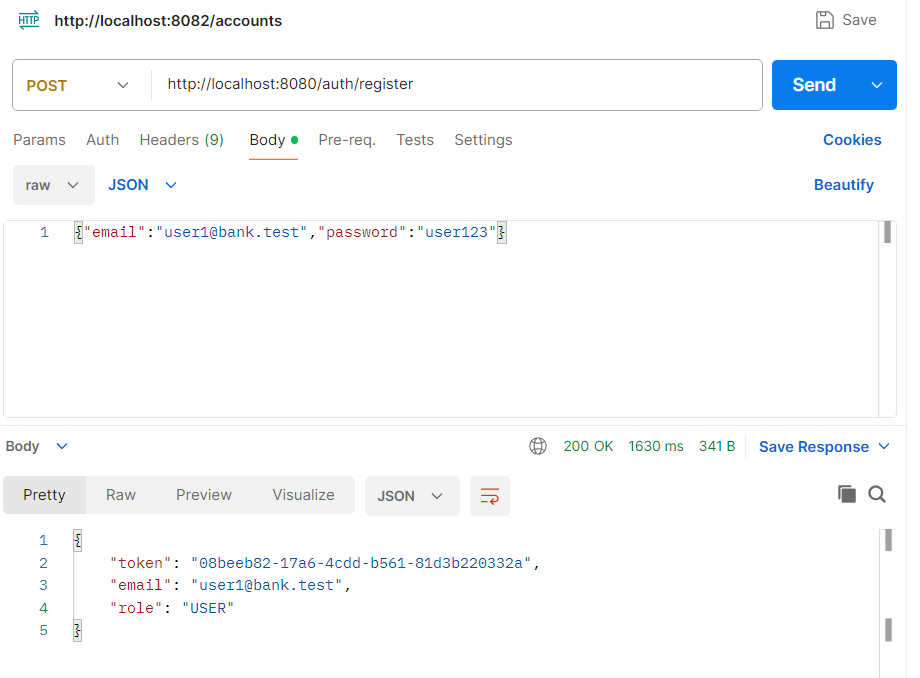
|  |  |  |
| --- | --- | --- |
| Service | Purpose | Port |
| Auth Service | Register and login . issues jwt | 8080 |
| Customer Service | User profile and Kyc uploads | 8081 |
| Admin (KYC management) | Review and decide KYC | 8081 |
| Account Service | Open Account debit/credit balances | 8082 |
| Transaction Service | Internal and external transfers  History and statements | 8083 |
| Notification Serivce | Send messages and emails | 8085 |

Register a new User

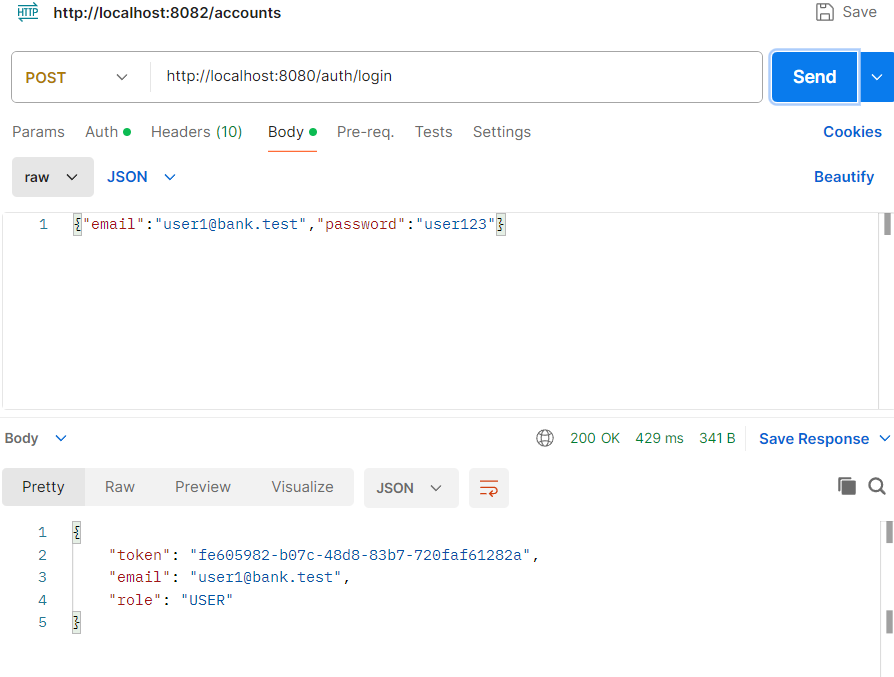
curl -i -X POST http://localhost:8080/auth/register \

-H "Content-Type: application/json" \

-d '{"email":"user1@bank.test","password":"user123"}'



Login as the user (get JWT token)



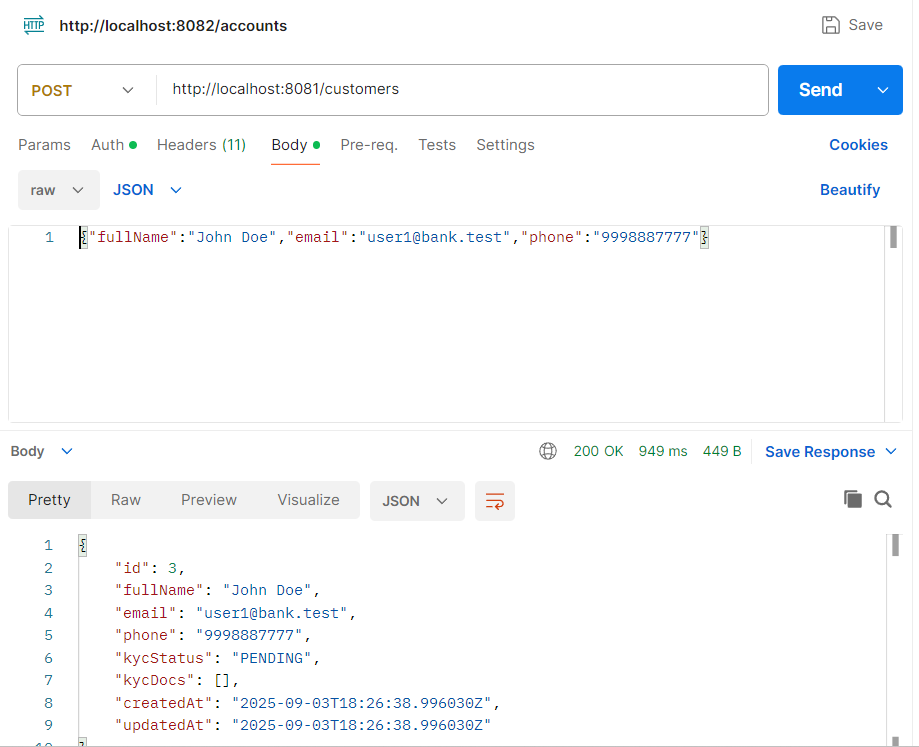
Create / update your customer profile

curl -i -X POST http://localhost:8081/customers \

-H "Content-Type: application/json" \

-H "Authorization: Bearer <USER\_TOKEN>" \

-d '{"fullName":"John Doe","email":"user1@bank.test","phone":"9998887777"}'



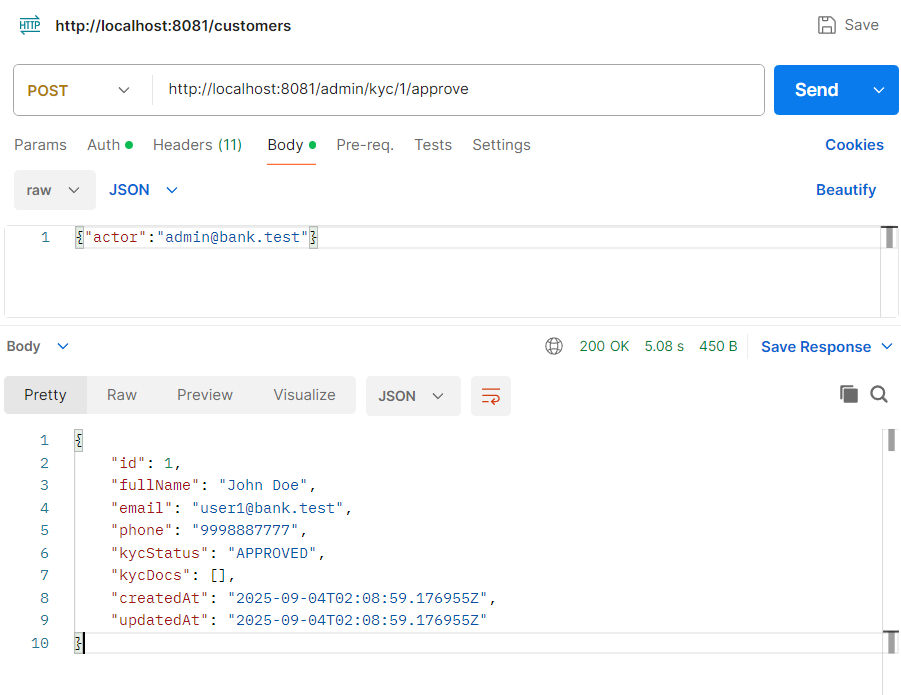
1. Approve KYC for customer 1

curl -i -X POST http://localhost:8081/admin/kyc/1/approve \

-H "Authorization: Bearer <ADMIN\_TOKEN>" \

-H "Content-Type: application/json" \

-d '{"actor":"admin@bank.test"}'



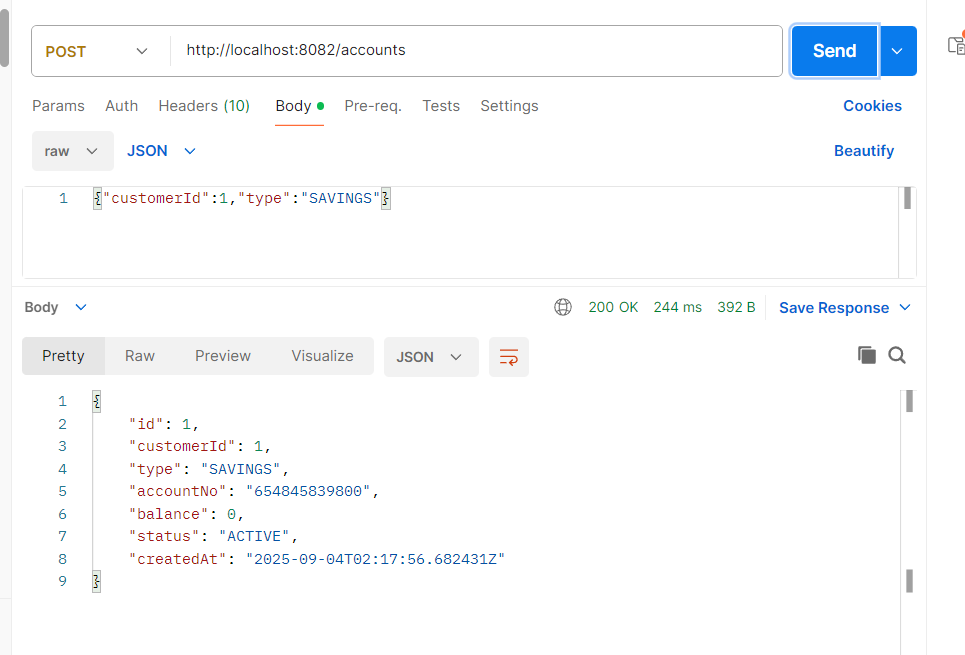
5)Open **first** account (SAVINGS)

curl -i -X POST http://localhost:8082/accounts \

-H "Content-Type: application/json" \

-H "Authorization: Bearer 4a5d4c13-1cec-4567-bec6-fb5121c0c592" \

-d '{"customerId":1,"type":"SAVINGS"}'



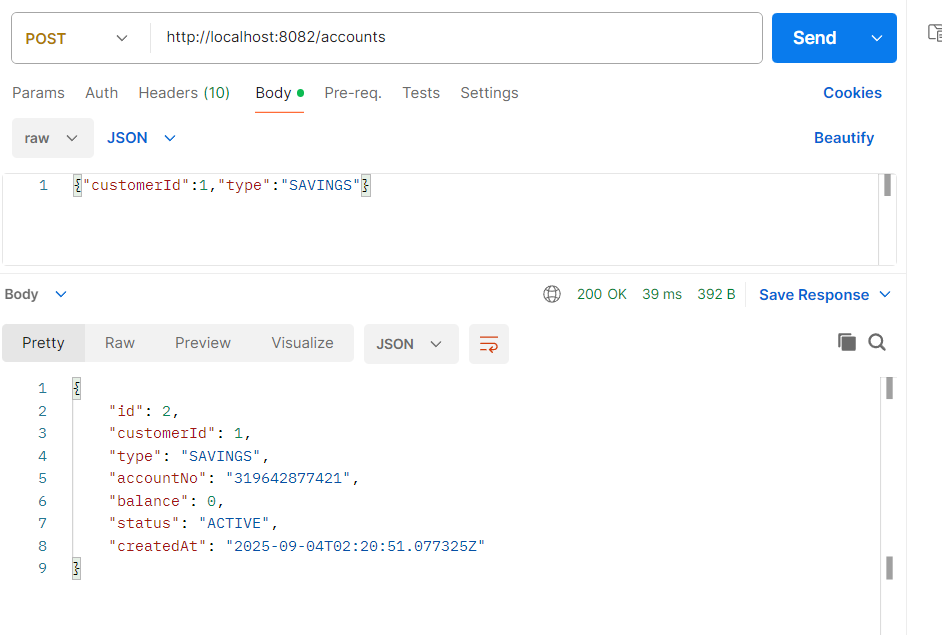
Open your **second** account (SAVINGS)

curl -i -X POST http://localhost:8082/accounts \

-H "Content-Type: application/json" \

-H "Authorization: Bearer 4a5d4c13-1cec-4567-bec6-fb5121c0c592" \

-d '{"customerId":1,"type":"SAVINGS"}'



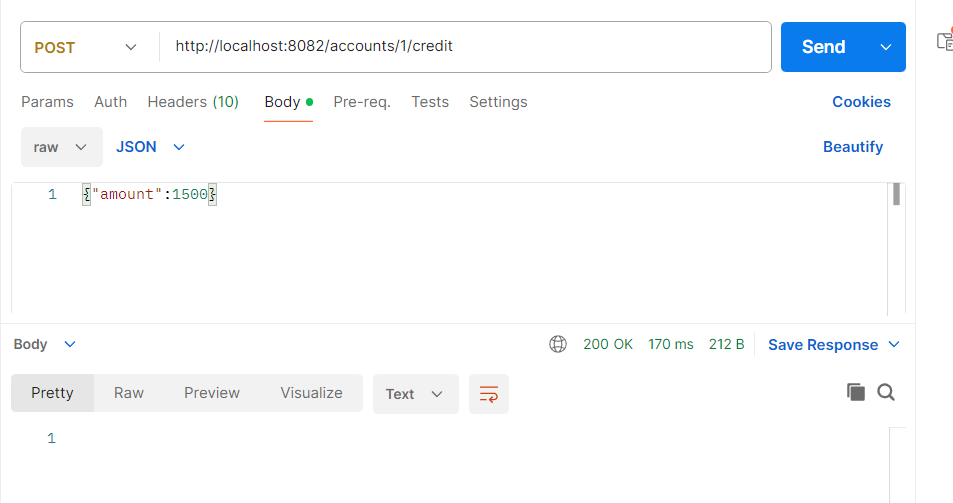
6)Seed funds: **credit A1** (put money into the first account)

curl -i -X POST http://localhost:8082/accounts/1/credit \

-H "Content-Type: application/json" \

-H "Authorization: Bearer 4a5d4c13-1cec-4567-bec6-fb5121c0c592" \

-d '{"amount":1500}'



1. Do the **internal transfer from account 1 to account 2**

curl -i -X POST http://localhost:8083/transactions/internal \

-H "Content-Type: application/json" \

-H "Authorization: Bearer 4a5d4c13-1cec-4567-bec6-fb5121c0c592" \

-d '{

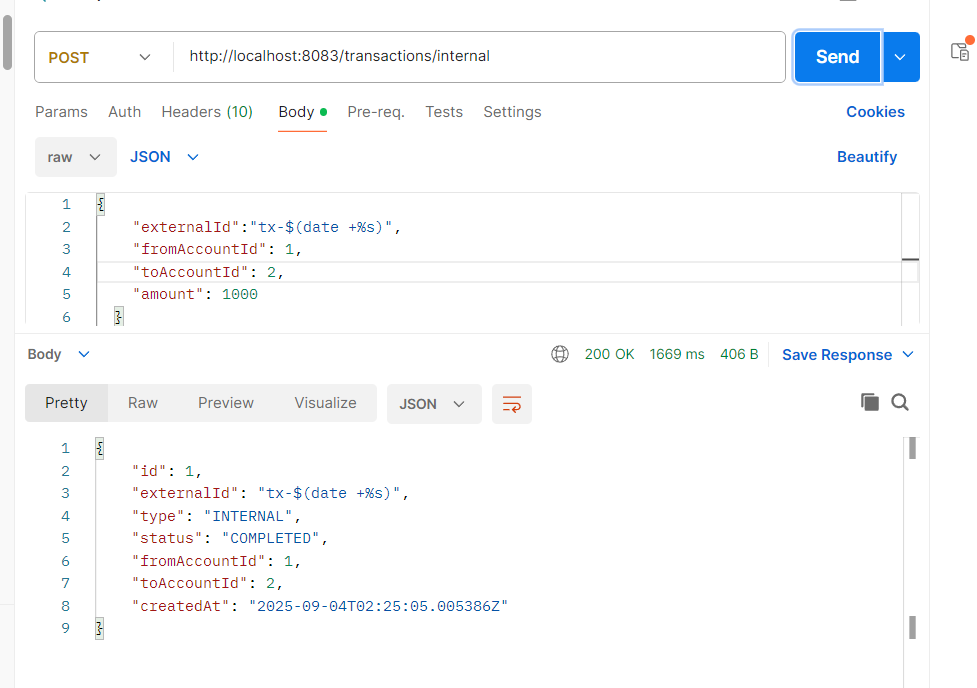
"externalId":"tx-'"$(date +%s)"'",

"fromAccountId": 1,

"toAccountId": 2,

"amount": 1000

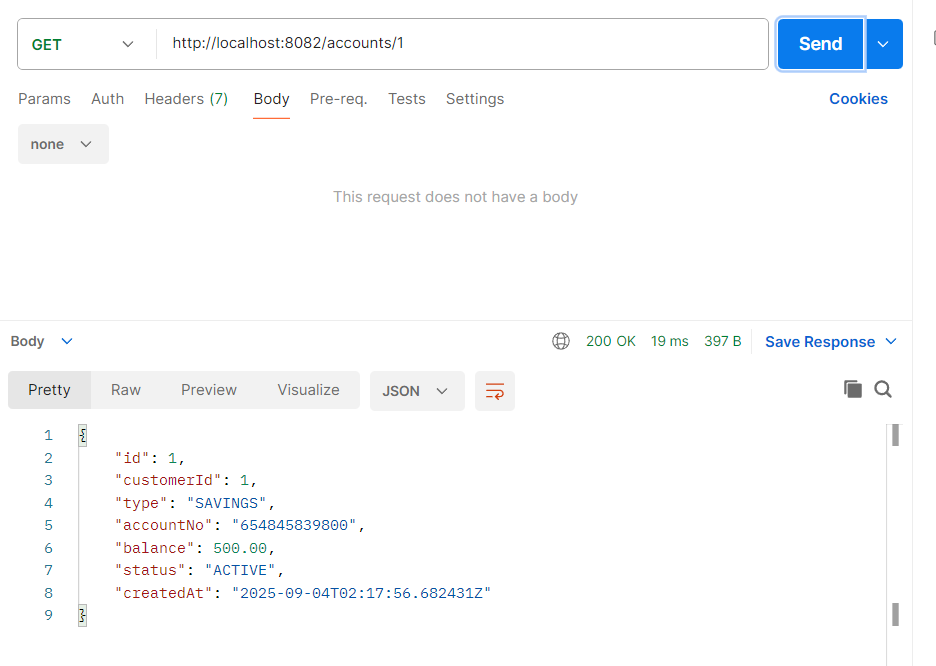
}'

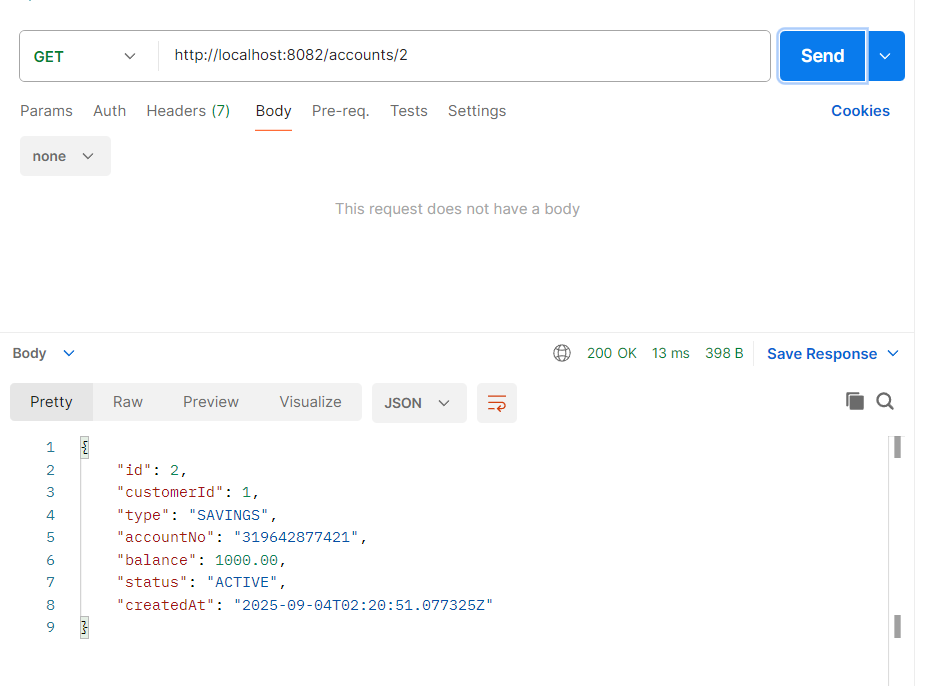


1. Verify **A1 balance** (after transfer)

curl -i http://localhost:8082/accounts/1 \

-H "Authorization: Bearer 4a5d4c13-1cec-4567-bec6-fb5121c0c592"

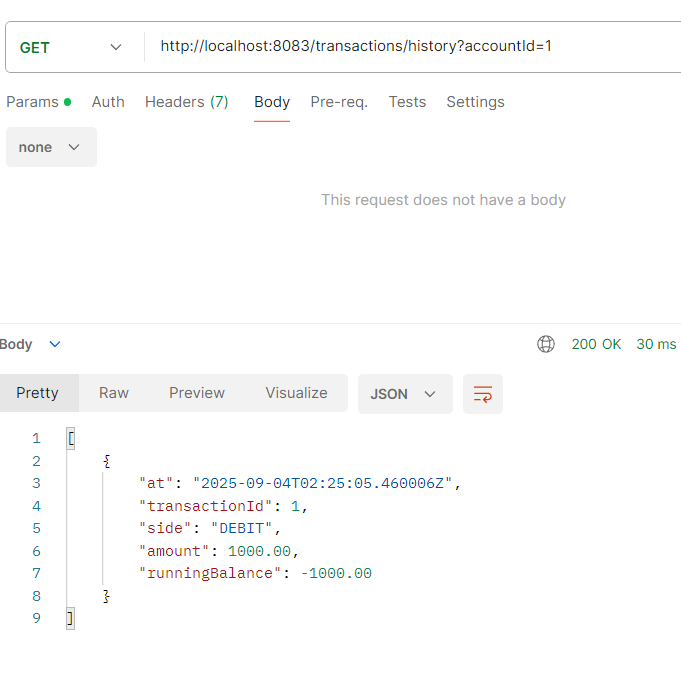




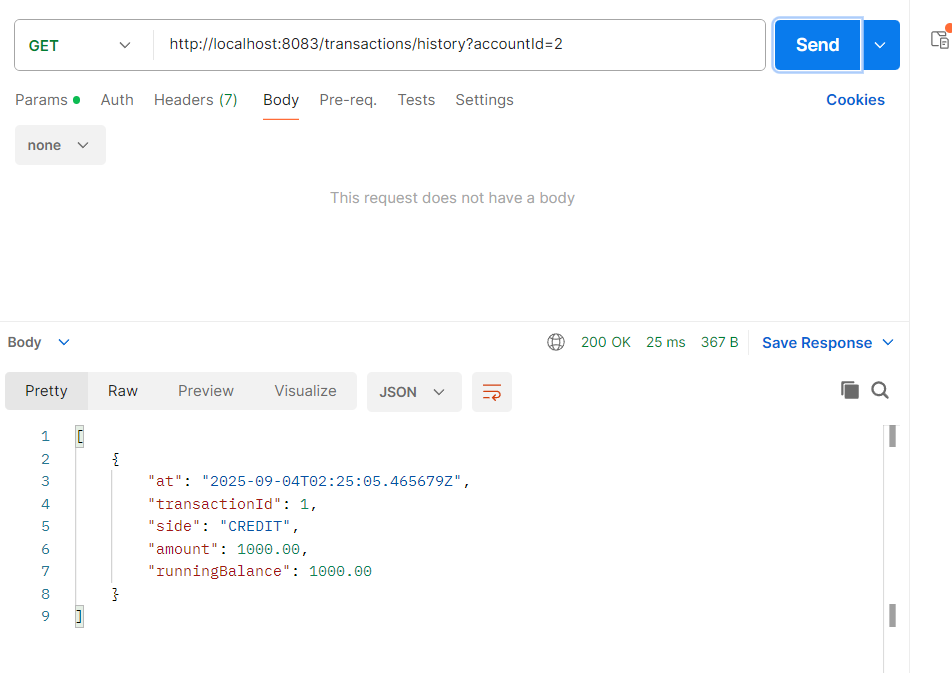
10) View **transaction history** for Account 1

curl -s "http://localhost:8083/transactions/history?accountId=<A1>" \

-H "Authorization: Bearer 4a5d4c13-1cec-4567-bec6-fb5121c0c592" | jq .



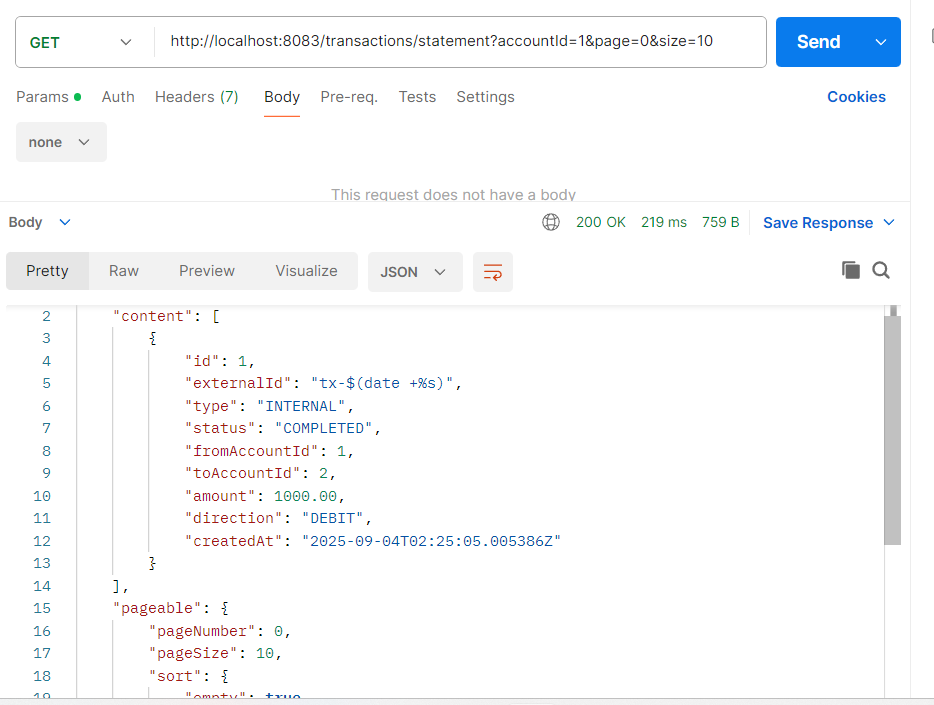
1. View **transaction history** for A2



1. Paginated **Statement** (A1)

curl -s "http://localhost:8083/transactions/statement?accountId=1&page=0&size=10" \

-H "Authorization: Bearer 4a5d4c13-1cec-4567-bec6-fb5121c0c592" | jq .



**External transfer** from A2 → outside bank

curl -i -X POST http://localhost:8083/transactions/external \

-H "Content-Type: application/json" \

-H "Authorization: Bearer 4a5d4c13-1cec-4567-bec6-fb5121c0c592" \

-d '{

"externalId":"tx-ext-'"$(date +%s)"'",

"fromAccountId": <A2>,

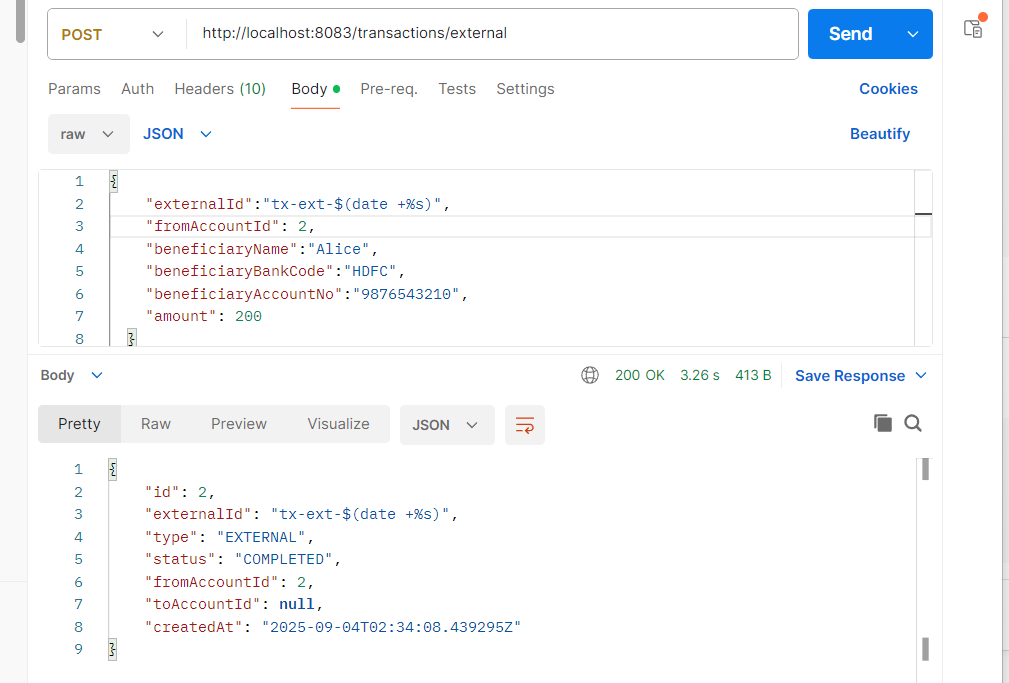
"beneficiaryName":"Alice",

"beneficiaryBankCode":"HDFC",

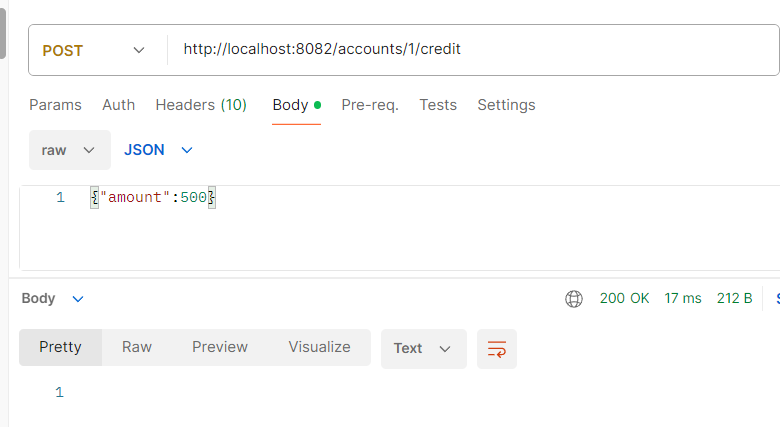
"beneficiaryAccountNo":"9876543210",

"amount": 200

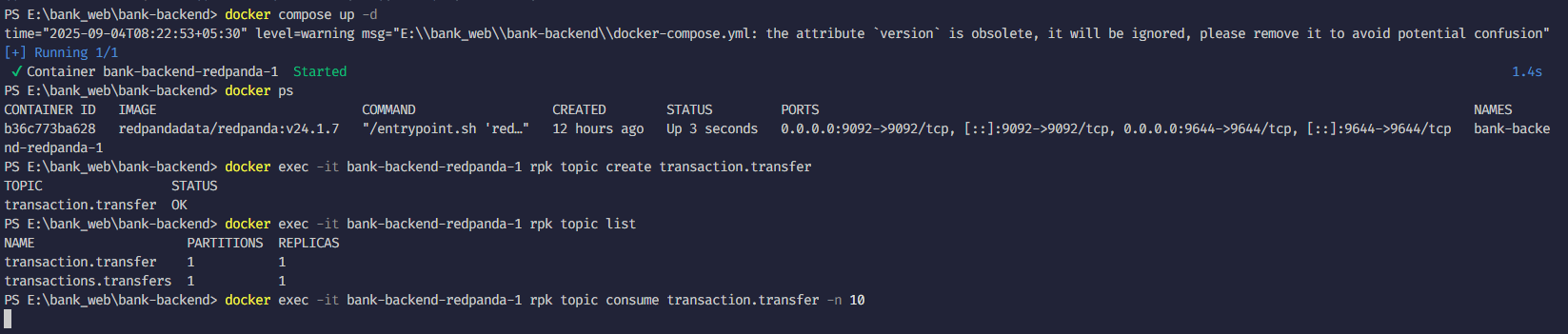
}'



Manual **credit/debit** on an account



KAFKA SERVICE



UI FOR BANK APPLICATION

